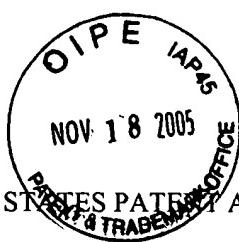


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| First Named Inventor: | Jeffrey James Jonas | Assignee: | International Business Machines Corporation |
| Application No.: | 10/750,482 | Customer No.: | 24852 |
| Confirmation No.: | 9863 | Group Art Unit: | 2121 |
| Filing Date: | 12/31/2003 | Examiner: | Unknown |
| Title | Authorized anonymous authentication | | |

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I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application and appoint practitioners at

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as our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected herewith.

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| Name | Lynne D. Anderson | Registration Number: 46,412 |
| Signature | | |
| Date | 11-18-05 | |
| NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*. | | |
| Total of 3 forms are submitted | | |



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| Application Number | 10/750,482 |
| Confirmation No. | 9863 |
| Filing Date | 12/31/2003 |
| First Named Inventor | Jeffrey James Jonas |
| Art Unit | 2121 |
| Title: | Authorized anonymous authentication |

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 Attorney or Agent of record.
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Typed or Printed

Name: Christine H. Smith, Reg. No.: 43,133

Signature

Date

Nov. 17, 2005

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

*Total of 3 forms are submitted.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | | |
|------------------------------|--|------------------------|--|
| First Named Inventor: | Jeffrey James Jonas | Assignee: | International Business Machines Corporation |
| Application No.: | 10/750,482 | Customer No.: | 24852 |
| Confirmation No.: | 9863 | Group Art Unit: | 2121 |
| Filing Date: | 12/31/2003 | Examiner: | Unknown |
| Title | Authorized anonymous authentication | | |

CERTIFICATE UNDER 37 C.F.R. §3.73(b)

INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation organized and existing under the laws of the State of New York, having a place of business at New Orchard Road, Armonk, New York 10504, certifies that it is the assignee of the entire right, title, and interest in the patent application identified above by virtue of:

An assignment from the inventor, Jeffrey James Jonas, to Systems Research & Development, of the patent application identified above. The assignment was recorded in the U.S. Patent and Trademark office on June 21, 2004, at Reel/Frame 015477/0435 (copy attached). Further assignment from Systems Research & Development to International Business Machines Corporation was recorded in the U.S. Patent and Trademark office on May 31, 2005, at Reel/Frame 016078/0051 (copy attached).

INTERNATIONAL BUSINESS MACHINES CORPORATION owns 100% interest in the above-identified patent application.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, as the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Dated: 11-18-05

By:

Lynne D. Anderson, Reg.No. 46,412
Program Manager
International Business Machines Corporation
333 John Carlyle Street, Suite 635
Alexandria, VA 22314



LETTER OF AUTHORITY

I, Gerald Rosenthal, Vice President, Intellectual Property and Licensing of International Business Machines Corporation (IBM), a New York corporation, do hereby delegate the authority to approve and execute documents on behalf of IBM relating to proceedings in the Patent, Trademark Registration or Copyright Offices servicing any country or region of the world, or to related appeal proceedings, including, but not limited to: petitions; powers of Attorney; authorizations; verification; nominations of representatives; declarations; documents relating to maintenance and defense of the resulting industrial property rights; assignments of rights to apply for and acquire patents and trademark registrations; and evidence of such assignments; requests for the registration of patents as available for licensing; reports of inventions and petitions for waiver of patent rights to any department or agency of the United States Government; and, assignments, licenses and other instruments confirmatory of Government rights in patents and inventions, to

Lynne D. Anderson, Program Manager, Patent Office Liaison.

Date: April 6, 2004

A handwritten signature in black ink, appearing to read "Gerald Rosenthal".

Gerald Rosenthal
Vice President, Intellectual Property & Licensing
International Business Machines Corporation